

Roll No. ....

**DD-2874**

**B. C. A. (Part III) EXAMINATION, 2020**

Paper Fourth

PROGRAMMING IN JAVA

*Time : Three Hours*

*Maximum Marks : 100*

**Note:** Attempt any *two* questions from each Unit. All questions carry equal marks.

**Unit—I**

1. (a) Write the structure of a Java Program.
- (b) Explain the concept of two-dimensional arrays in Java.
- (c) What are Java Tokens ? Explain its various types in brief.

**Unit—II**

2. (a) What is the importance of CLASSPATH ? Discuss.
- (b) What is the difference between a class and an interface ? Explain.
- (c) Write a program to find the transpose of a given matrix.

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**Unit—III**

3. (a) Write a program that demonstrate the priority setting in threads.
- (b) What is a thread ? Discuss about creation of threads.
- (c) What is the purpose of exception handling mechanism ?

**Unit—IV**

4. (a) Explain the types of drivers used in JDBC.
- (b) Discuss about standard java packages in Java.
- (c) What is URL connection ? Explain its working principle in detail.

**Unit—V**

5. (a) Describe about various components in AWT.
- (b) Write an applet program to handle all mouse events.
- (c) What is an applet ? Explain the applet life cycle with the help of an example.